

# ATKINS *Band* SAWs



Watercolor by  
Walter Reedy

# ATKINS BLUED WIDE BAND SAWS

A recent distinctive step in the betterment of Band Saws is through our new bluing process, an additional heat treating process.

There always is the possibility that during the course of manufacturing, the teeth or the blade may have received some case, or work-hardness. The bluing process eliminates this entirely. Any work-hardness in the steel may be apt to cause teeth to crumble, small cracks to start in the gullet or in the back or even in the blade itself.

Through the elimination of work-hardness, the teeth work uniformly in swaging.

Band Saws have a tendency to stretch slightly. The Atkins process stiffens the saw and reduces this stretching tendency. Furthermore, by stiffening the saw the tension is held longer and less tensioning is required on the blade.

## Silver Steel

E. C. Atkins and Company are the oldest manufacturers of band saws in the United States. This would mean nothing unless we had taken advantage of our increased experience and constantly improved the standard of our product. If "practice makes perfect," then we should know most about the manufacture of band saws. We use our own formula for band saw steel—**SILVER STEEL**—which is giving the very best results. By actual test (which is indisputable evidence), it is the finest saw steel that has ever been used in band saws, regardless of price.

## Analysis

An analysis is made in the laboratory, and the heat treatment prescribed, based upon the character of the work which the saw is to perform. Our knowledge in this regard has been ac-

quired through our many years' experience in manufacturing band saws for all classes of work.

## Equipment for Tempering

Our equipment for the tempering of band saws was perfected by us and is exclusive. By its use we are able to impart an exactly uniform temper throughout the entire blade. There are no hard or soft spots. Each part of the blade is of exactly the same degree of toughness.

## Heat Treatment

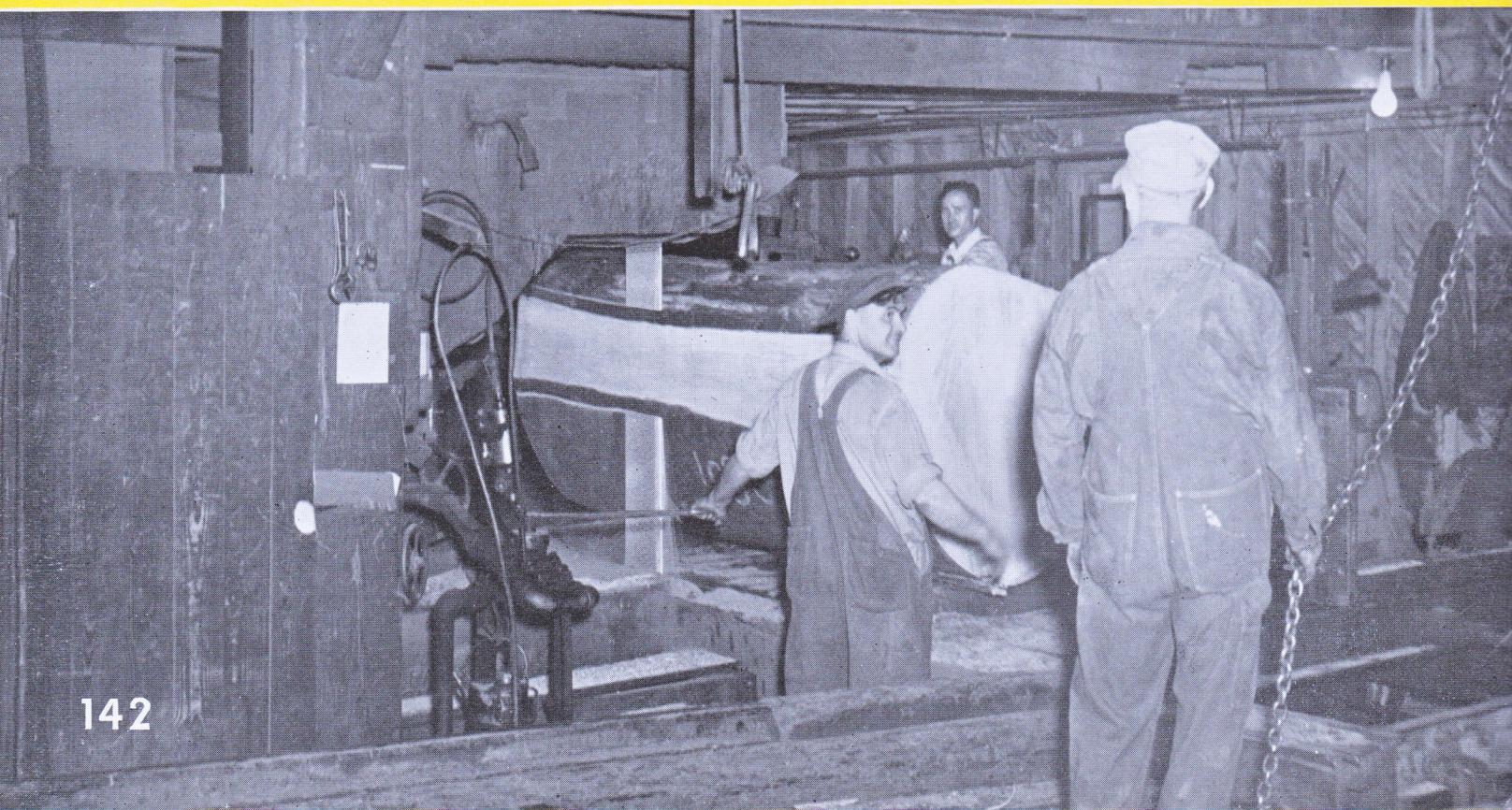
This treatment renders **SILVER STEEL** exceedingly pliable, at the same time firm and tenacious, with no liability of cracking or losing teeth or points, and having the quality of holding its cutting edge and tension under forced feed and most trying conditions.

## Grinding

Special machinery is used in grinding, whereby we are able to secure uniform gauge over the entire width of the blade. In this process we employ ponderous machinery that has been perfected by ourselves, the use of which adds to the perfect operation of the finished blade.

## Tensioning

We feel justly proud of the manner in which our tensioning and leveling is done. In this department we employ none but the most skilled saw makers, who are required to serve a number of years as apprentices before they are intrusted with the regular work; thus we can assure our customers that Atkins **SILVER STEEL** Band Saws are thoroughly satisfactory, "The Finest on Earth."



# WIDE BAND SAWS, REPAIRS AND TABLE OF STRAIN

## Wide Band Saws

See Page 4 for Standard Teeth Patterns

Width Inches	Usual Gauge	Approx. Weight per Ft.
2	18 to 20	.28
3	18 to 20	.42
3½	18 to 20	.50
4	17 to 19	.57
4½	17 to 19	.64
5	17 to 19	.83
6	17 to 19	1.06
7	16 to 18	1.37
8	14 to 18	1.76
9	14 to 18	2.20
10	14 to 16	2.81
11	14 to 16	3.09
12	13 to 15	3.37
13	13 to 15	3.65
14	13 to 15	4.50
15	12 to 14	4.82
16	12 to 14	5.92
17	12 to 14	6.29
18	12 to 14	6.66

## Repairing Wide Band Saw Blades

We maintain at all times the finest saw repair shops that can be found anywhere, and they are operated by factory trained men who know saws and how to make them. If you have a band saw repair problem on which you'd like ATKINS service send it to the nearest service depot listed below.

Welding band saws has been developed to a high degree and our work along this line is the best that can be obtained. Prices on application.

It is not guessed at; it is done right.

Indianapolis, Ind.; Portland, Ore.; each conven-

iently located in the center of lumber manufacturing. Indianapolis and Portland handle all kinds of repairs except barrel and bilge saw work.

The brazing and welding of ATKINS Wide Bandsaws is an achievement brought about by long and thorough research and mill use. There is no hit or miss; this operation is as important to the final successful results of bandsawing as any other work we do on them. Other repairs such as gumming, toothing, swaging, hammering are done with equal care. You cannot go wrong with ATKINS repairs—quick and efficient service is the motto of our repair service department.

Ask for a copy of Tools in the Filing Room.

## Revised Table of Strains for Band Saws of Different Widths

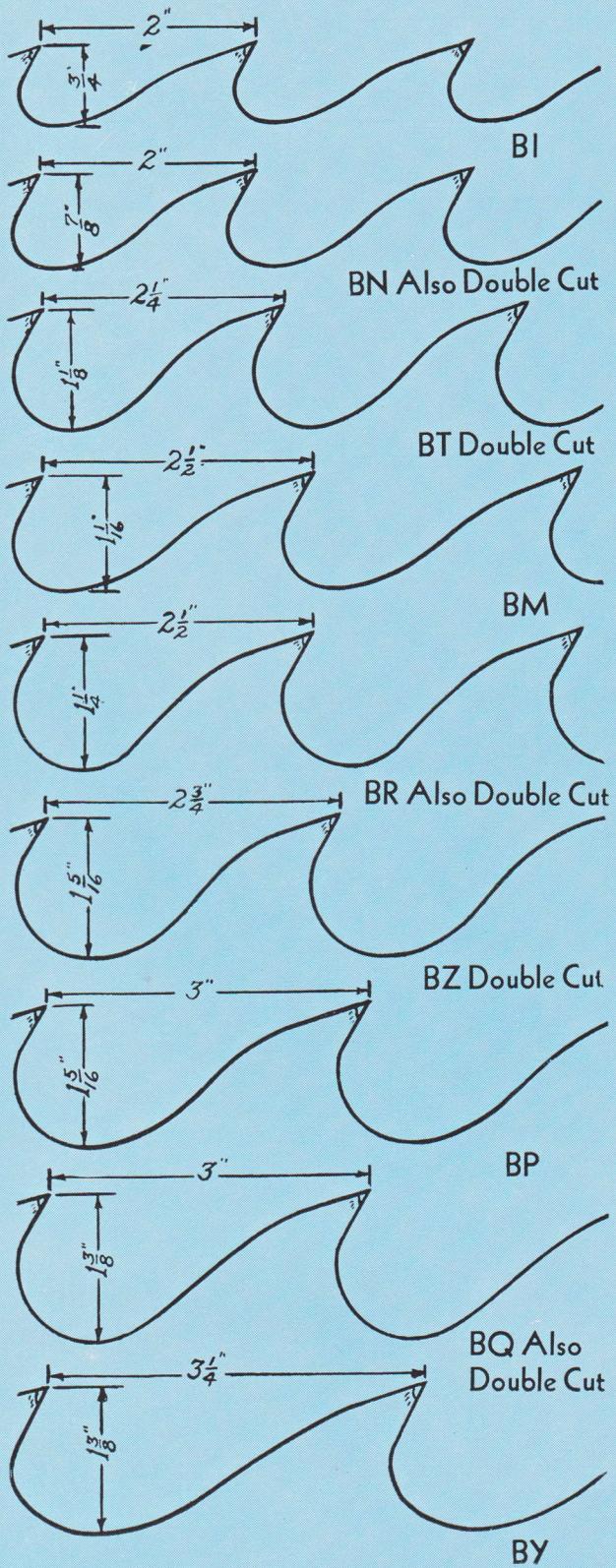
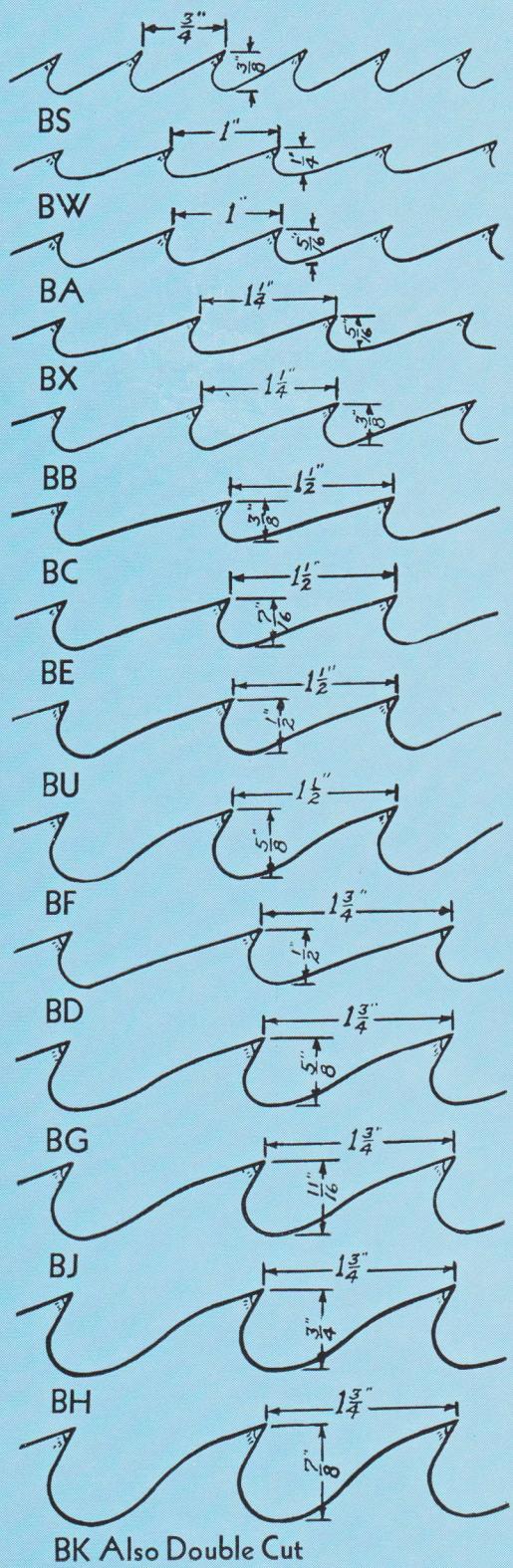
Suited to Different Widths of Band Saw Blades

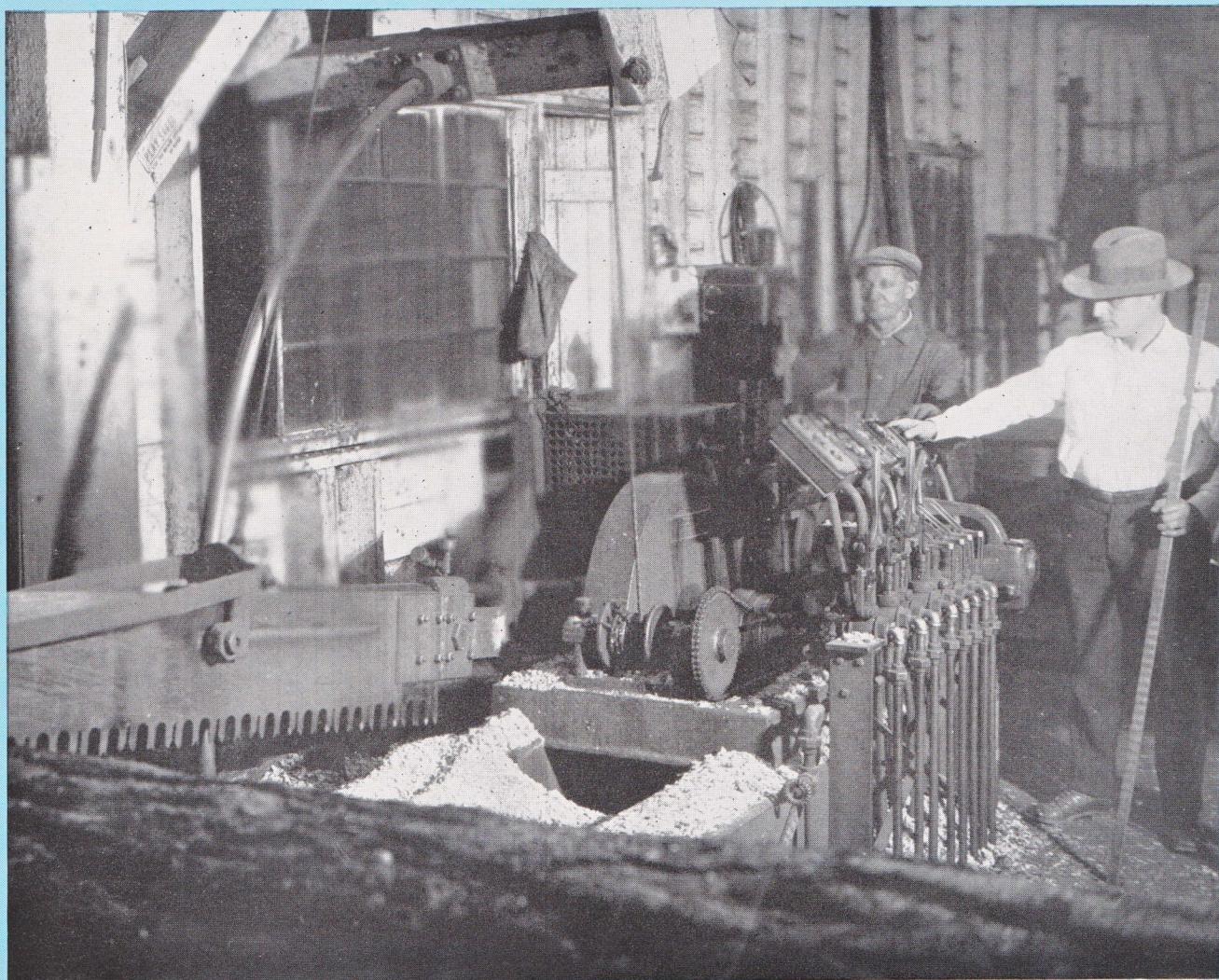
Width Inches	Thickness		Pounds Strain
	Gauge	Inches	
2	20	.035	700
2½	20	.035	900
3	20	.035	1150
4	20	.035	1400
5	19	.042	2100
6	18	.049	2750
7	17	.058	4050
8	17	.058	4650
9	16	.065	5850
10	15	.072	7200
11	15	.072	8000
12	14	.083	10000
13	14	.083	10800
14	14	.083	11500
15	13	.095	13500
16	13	.095	15000
17	12	.109	18000
18	12	.109	19000

A good rule to follow in determining the correct strain for a band saw is ten pounds to each inch in width multiplied by number of thousandths in thickness.

# STANDARD PATTERNS OF BAND SAW TEETH

Shown Approximately  $\frac{1}{2}$  Actual Size





## ATKINS MILL DRAG·SAWS

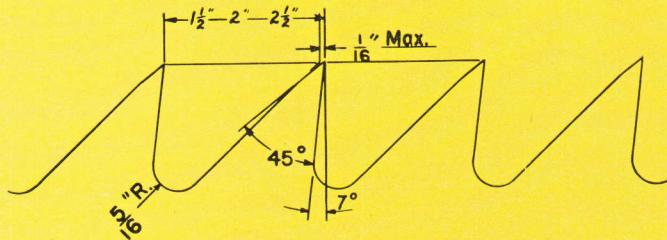
The importance of this saw is never underrated by Atkins and therefore only the very best of materials, manufacturing methods and workmanship are employed—Atkins Silver Steel, the finest saw steel known is thoroughly hardened and tempered, and will stand up under the toughest conditions. The accurate grinding makes them run smooth and true.

The uniformity of the filing and setting gives greater sawing life between sharpenings, also less frequent saw changes and operate with less power. They are ready for use.

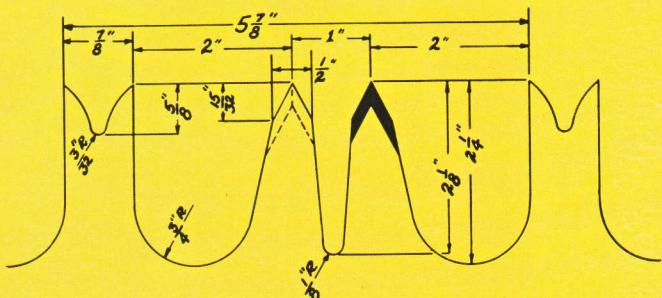
Atkins Mill Drag Saws are made in widths 8, 9, 10, 11, 12, 14 and 16 inches, in any of the following gauges 4, 5, 6, 7, 8, 9 and 10.

Generally furnished flatground, taper ground when specified.

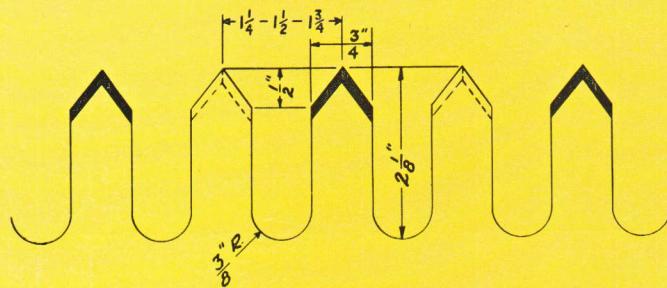
# ATKINS MILL DRAG SAWS



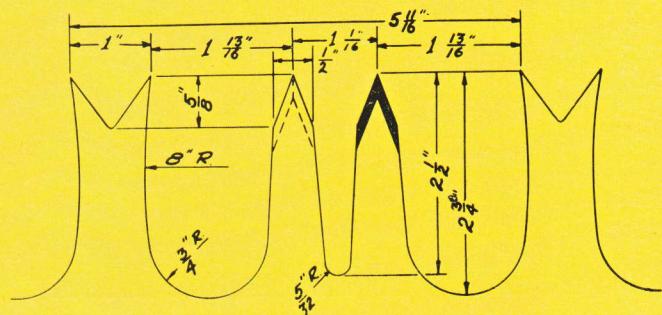
**11-2**



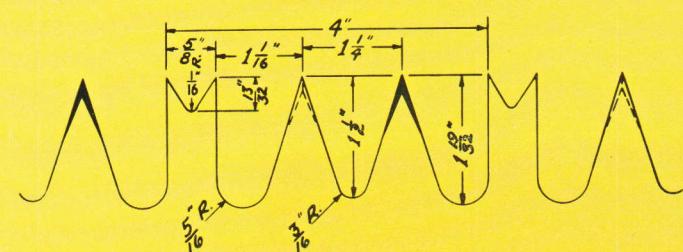
**14 1/2**



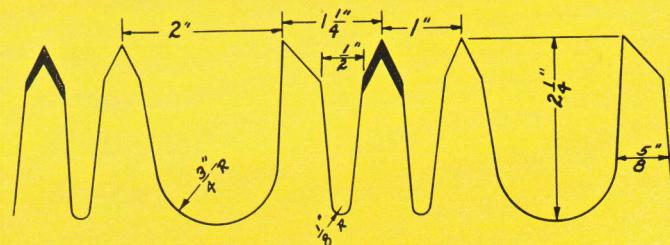
**12-1 1/2**



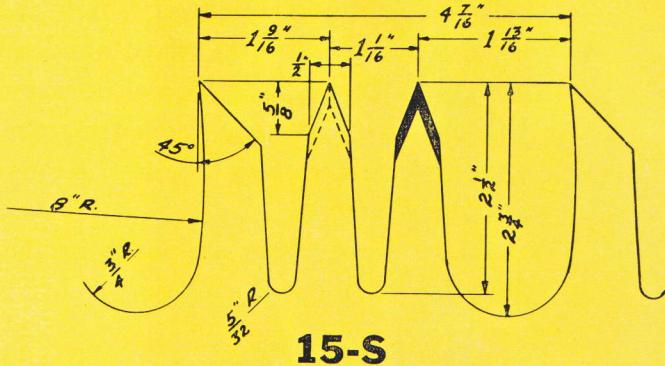
**15-D**



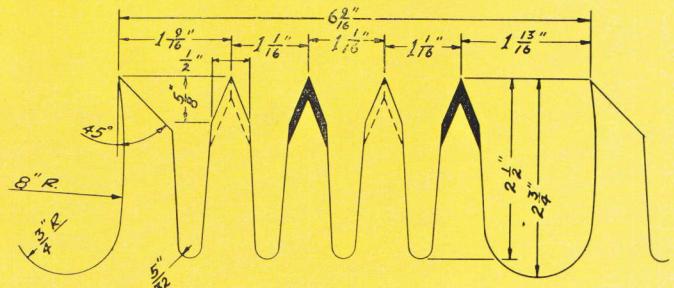
**13**



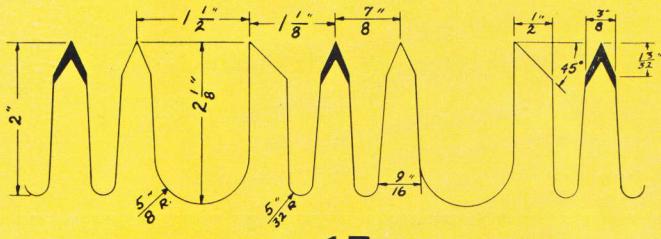
**14**



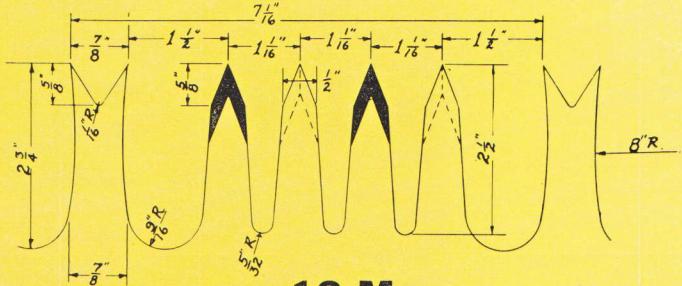
**15-S**



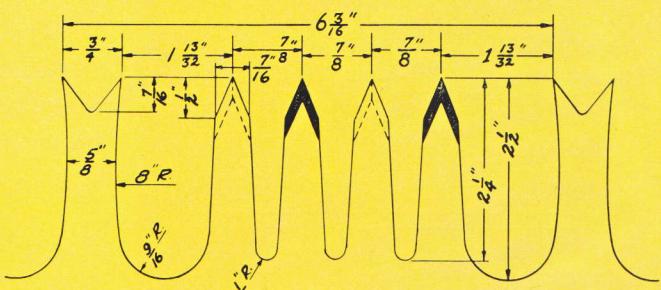
**15-S4**



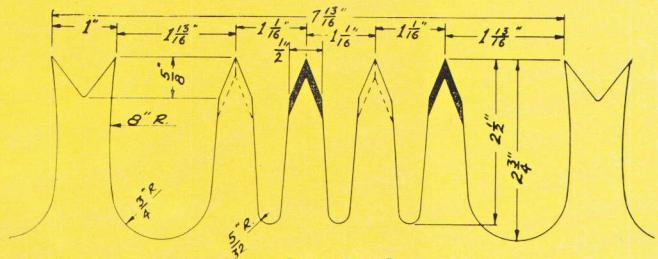
**17**



**18-M**



**16-D4**



**15-D4**

## HOW TO ORDER MILL DRAG SAWS

On your order of Mill Drag Saws give the following information:

- 1 Length
- 2 Width at ends  
(specify both ends)
- 3 Gauge of blade
- 4 Tooth Pattern by number (see diagrams).
- 5 Send with order a template or rubbing on plain paper of the complete end or ends showing all holes and slots, specify the back of saw, end of saw, length of blank space at machine end of saw, or if saw is toothed from end to end.

# ATKINS GANG SAWS



## ATKINS Standard Gang Saw Tooth Patterns

